



FORM PTO-1449

## INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
0623.1000000APPLICATION NO.  
09/756,283APPLICANT  
Chernajovsky *et al.*FILING DATE  
January 9, 2001GROUP  
1614

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
<i>g/k</i>	AA1	5,697,901	12/16/1997	Eriksson	604	46	05/19/1995
	AB1	5,801,231	09/01/1998	Derynck <i>et al.</i>	536	23.1	05/30/1995
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	AL						Yes No
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	AN						Yes No
	AO						Yes No
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<i>g/k</i>	AR	1	Baugh, M.D., <i>et al.</i> , "Matrix Metalloproteinase Levels Are Elevated in Inflammatory Bowel Disease," <i>Gastroenterology</i> 117:814-822, American Gastroenterological Association (1999)
<i>l</i>	AS	1	Brunner, A.M., <i>et al.</i> , "Site-directed Mutagenesis of Cysteine Residues in the Pro Region of the Transforming Growth Factor $\beta$ 1 Precursor," <i>J. Biol. Chem.</i> 264:13660-13664, The American Society for Biochemistry and Molecular Biology, Inc. (1989)
<i>l</i>	AT	1	Brunner, A.M., <i>et al.</i> , "Site-Directed Mutagenesis of Glycosylation Sites in the Transforming Growth Factor- $\beta$ 1 (TGF $\beta$ 1) and TGF $\beta$ 2 (414) Precursors and of Cysteine Residues within Mature TGF $\beta$ 1: Effects on Secretion and Bioactivity," <i>Mol. Endocrinol.</i> 6:1691-1700, The Endocrine Society (1992)

EXAMINER *g/k*DATE CONSIDERED  
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	AR	2	Carroll, M.C., "The Role of Complement and Complement Receptors in Induction and Regulation of Immunity," <i>Annu. Rev. Immunol.</i> 16:545-568, Annual Reviews Inc. (1998)
	AS	2	Chernajovsky, Y., <i>et al.</i> , "Efficient Constitutive Production of Human Fibroblast Interferon by Hamster Cells Transformed with the IFN- $\beta_1$ Gene Fused to An SV40 Early Promoter," <i>DNA</i> 3:297-308, Mary Ann Liebert, Inc. (1984)
	AT	2	Chernajovsky, Y., <i>et al.</i> , "Pathogenic lymphoid cells engineered to express TGF $\beta_1$ ameliorate disease in a collagen-induced arthritis model," <i>Gene Ther.</i> 4:553-559, Stockton Press (1997)

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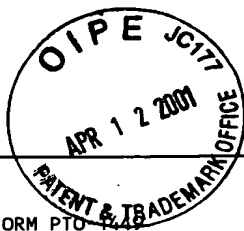
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	AS	3	Crawford, S.E., <i>et al.</i> , "Thrombospondin-1 Is a Major Activator of TGF- $\beta$ 1 In Vivo," <i>Cell</i> 93:1159-1170, Cell Press (1998)
	AT	3	DeClerck, Y.A., <i>et al.</i> , "Inhibition of Invasion and Metastasis in Cells Transfected with an Inhibitor of Metalloproteinases," <i>Cancer Res.</i> 52:701-708, The American Association for Cancer Research (1992)

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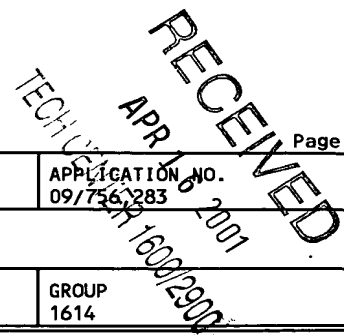
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	AR	4	de Martin, R., <i>et al.</i> , "Complementary DNA for human glioblastoma-derived T cell suppressor factor, a novel member of the transforming growth factor- $\beta$ gene family," <i>EMBO J.</i> 6:3673-3677, IRL Press Ltd. (1987)
	AS	4	Derynck, R., <i>et al.</i> , "Human transforming growth factor- $\beta$ complementary DNA sequence and expression in normal and transformed cells," <i>Nature</i> 316:701-705, Macmillan Publishers Ltd. (1985)
	AT	4	Derynck, R., <i>et al.</i> , "A new type of transforming growth factor- $\beta$ , TGF- $\beta$ 3," <i>EMBO J.</i> 7:3737-3743, IRL Press Ltd. (1988)

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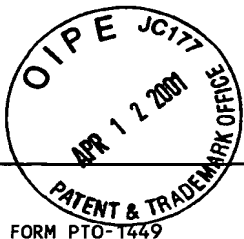
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	AR	5	Derynck, R., "TGF- $\beta$ -receptor-mediated signaling," <i>Trends in Biochem. Sci.</i> 19:548-553, Elsevier Science Ltd. (1994)
	AS	5	Dreja, H., <i>et al.</i> , "Soluble Complement Receptor 1 (CD35) Delivered by Retrovirally Infected Syngeneic Cells or by Naked DNA Injection Prevents the Progression of Collagen-Induced Arthritis," <i>Arthritis &amp; Rheumatism</i> 43:1698-1709, American College of Rheumatology (August 2000)
	AT	5	Eklöv, S., <i>et al.</i> , "Lack of the Latent Transforming Growth Factor $\beta$ Binding Protein in Malignant, but not Benign Prostatic Tissue," <i>Cancer Res.</i> 53:3193-3197, American Association for Cancer Research (1993)

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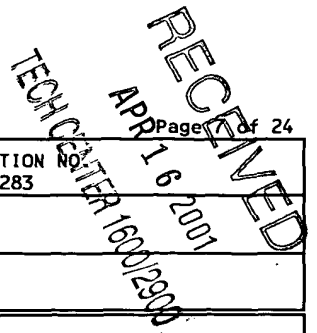
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	AR	6	Gibson, M.A., "Bovine Latent Transforming Growth Factor $\beta$ 1-Binding Protein 2: Molecular Cloning, Identification of Tissue Isoforms, and Immunolocalization to Elastin-Associated Microfibrils," <i>Molec. Cell. Biol.</i> 15:6932-6942, American Society for Microbiology (1995)
	AS	6	Goldman, M.H., <i>et al.</i> , "Monitoring proteolysis of recombinant human interferon- $\gamma$ during batch culture of Chinese hamster ovary cells," <i>Cytotechnol.</i> 23:103-111, Kluwer Academic Publishers (1997)
	AT	6	Gordon, E.M., <i>et al.</i> , "Capture and Expansion of Bone Marrow-Derived Mesenchymal Progenitor Cells with a Transforming Growth Factor- $\beta$ 1 - von Willebrand's Factor fusion Protein for Retrovirus-Mediated Delivery of Coagulation Factor IX," <i>Hum. Gene Ther.</i> 8:1385-1394, Mary Ann Liebert, Inc. (1997)

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	AR	Z	Han, Z., <i>et al.</i> , "AP-1 and NF- $\kappa$ B Regulation in Rheumatoid Arthritis and Murine Collagen-Induced Arthritis," <i>Autoimmunity</i> 28:197-208, Harwood Academic Publishers (1998)
	AS	Z	Hanks, S.K., "Amino acid sequence of the BSC-1 cell growth inhibitor (polyergin) deduced from the nucleotide sequence of the cDNA," <i>Proc. Natl. Acad. Sci. USA</i> 85:79-82, National Academy of Sciences of the USA (1988)
	AT	Z	Iwakura, Y., <i>et al.</i> , "Purification of Mouse L Cell Interferon," <i>J. Biol. Chem.</i> 253:5074-5079, The American Society of Biological Chemists, Inc. (1978)

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	AR	8	Jakowlew, S.B., <i>et al.</i> , "Complementary Deoxyribonucleic Acid Cloning of a Messenger Ribonucleic Acid Encoding Transforming Growth Factor $\beta$ 4 from Chicken Embryo Chondrocytes," <i>Molec. Endocrinol.</i> 2:1186-1195, The Endocrine Society (1988)
	AS	8	Janssens, K., <i>et al.</i> , "Mutations in the gene encoding the latency-associated peptide of TGF- $\beta$ 1 cause Camurati-Engelmann disease," <i>Nature Genetics</i> 26:273-275, Macmillan Magazines Ltd. (November 2000)
	AT	8	Kanzaki, T., <i>et al.</i> , "TGF- $\beta$ 1 Binding Protein: A component of the Large Latent Complex of TGF- $\beta$ 1 with Multiple Repeat Sequences," <i>Cell</i> 61:1051-1061, Cell Press (1990)

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JL L	AR	2	Khalil, N., "TGF- $\beta$ : from latent to active," <i>Microbes and Infection</i> 1:1255-1263, Elsevier (1999)
	AS	2	Kojima, S., <i>et al.</i> , "Requirement for Transglutaminase in the Activation of Latent Transforming Growth Factor- $\beta$ in Bovine Endothelial Cells," <i>J. Cell Biol.</i> 121:439-448, The Rockefeller University Press (1993)
	AT	2	Kondaiah, P., <i>et al.</i> , "Identification of a Novel Transforming Growth Factor- $\beta$ (TGF- $\beta$ 5) mRNA in <i>Xenopus laevis</i> ," <i>J. Biol. Chem.</i> 265:1089-1093, The American Society for Biochemistry and Molecular Biology, Inc. (1990)

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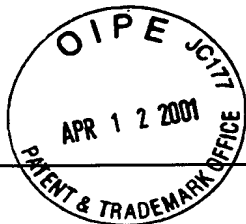
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	AR	10	Kubota, E., <i>et al.</i> , "Interleukin 1 $\beta$ and Stromelysin (MMP3) Activity of Synovial Fluid as Possible Markers of Osteoarthritis in the Temporomandibular Joint," <i>J. Oral Maxillofac. Surg.</i> 55:20-27, American Association of Oral and Maxillofacial Surgery (1997)
	AS	10	Leppert, D., <i>et al.</i> , "Matrix metalloproteinase-9 (gelatinase B) is selectively elevated in CSF during relapses and stable phases of multiple sclerosis," <i>Brain</i> 121:2327-2334, Oxford University Press (1998)
	AT	10	Libby, P., "The interface of atherosclerosis and thrombosis: basic mechanisms," <i>Vasc. Med.</i> 3:225-229, Arnold (1998)

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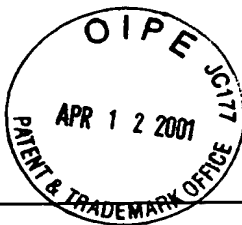
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	AR	11	Lode, H.N., <i>et al.</i> , "Immunocytokines: A Promising Approach to Cancer Immunotherapy," <i>Pharmacol. Ther.</i> 80:277-292, Elsevier Science Inc. (1998)
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	AT	11	Massova, I., <i>et al.</i> , "Structural Insights into the Catalytic Domains of Human Matrix Metalloprotease-2 and Human Matrix Metalloprotease-9: Implications for Substrate Specificities," <i>J. Mol. Model.</i> 3:17-30, Springer-Verlag (1997)

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	AR	12	Masure, S., <i>et al.</i> , "Production and characterization of recombinant active mouse gelatinase B from eukaryotic cells and <i>in vivo</i> effects after intravenous administration," <i>Eur. J. Biochem.</i> 244:21-30, Springer International (1997)
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	AT	12	Miyazono, K., <i>et al.</i> , "A role of the latent TGF- $\beta$ 1 binding protein in the assembly and secretion of TGF- $\beta$ 1," <i>EMBO J.</i> 10:1091-1101, Oxford University Press (1991)

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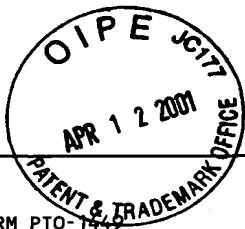
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AR	13	Miyazono, K., <i>et al.</i> , "Retention of the Transforming Growth Factor- $\beta$ 1 Precursor in the Golgi Complex in a Latent Endoglycosidase H-sensitive Form," <i>J. Biol. Chem.</i> 267:5668-5675, The American Society for Biochemistry and Molecular Biology, Inc. (1992)
AS	13	Morén, A., <i>et al.</i> , "Identification and Characterization of LTBP-2, a Novel Latent Transforming Growth Factor- $\beta$ -binding Protein," <i>J. Biol. Chem.</i> 269:32469-32478, The American Society for Biochemistry and Molecular Biology, Inc. (1994)
AT	13	Munger, J.S., <i>et al.</i> , "Interactions between Growth Factors and Integrins: Latent Forms of Transforming Growth Factor- $\beta$ Are Ligands for Integrin $\alpha$ v $\beta$ 1," <i>Molec. Biol. Cell</i> 9:2627-2638, The American Society for Cell Biology (1998)

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	AP						Yes No

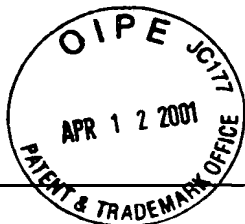
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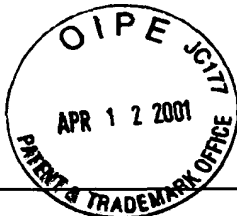
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	AR	20	Uhm, J.H., <i>et al.</i> , "Migratory Behavior of Lymphocytes Isolated from Multiple Sclerosis Patients: Effects of Interferon $\beta$ -1b Therapy," <i>Ann. Neurol.</i> 46:319-324, American Neurological Association (1999)
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	AS	21	Vu, T.H., and Werb, Zena, "Matrix metalloproteinases: effectors of development and normal physiology," <i>Genes &amp; Develop.</i> 14:2123-2133, Cold Spring Harbor Laboratory Press (September 2000)
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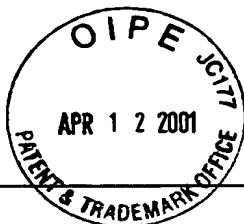
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